

ROGACHEV, V.V.; FLAKSMAN, A.A.

Microvoltmeter for use in electric prospecting. Geofiz. prib.
no. 12:11-18 '62. (MIRA 17:5)

1. Tsentral'nyy nauchno-issledovatel'skiy gornorazvedochnyy
institut tsvetnykh, redkikh i blagorodnykh metallov (for
Rogachev). 2. Oschobye konstruktorskoye byuro Ministerstva
geologii i okhrany nedor SSSR (for Flaksman).

KHISHCHUK, A.A.; BUCHINSKIY, Yu.L.; ROGACHEV, Ye.N.; VORONIN, V.A.;
KILLOCHITSKIY, N.G.; LISKONOG, N.G.; CHEVKOV, L.V., red.
izd-va; OVSEYENKO, V.G., tekhn. red.

[Practice of constructing headframes] Opyt stroitel'stva
bashennykh koprov. Moskva, Gosgortekhizdat, 1963. 82 p.
(MIRA 16:4)

(Mine buildings)

ROGACHEV, Ye.Ya., kand.tekhn.nauk

Operation of the cooler of TE3 diesel locomotives under winter conditions; some practical advice incited by the experience gained during the winter of 1962-1963. Elek. i tepl.tiaga 7 no.11:30-32 N '63. (MIRA 17:2)

ROGACHEV, Ye.Ya., kand.tekhn.nauk

Results of the tests of coolers with agitators on TE3 diesel
locomotives. Vest. TSNII MPS 23 no.1:31-35 '64. (MIRA 17:4)

ROGACHEV, Ye.Ya., kand.tekhn.nauk

How to improve the operation of coolers on TE-3 diesel
locomotives in winter. Elek. i tepl.tiaga 3 no.11:20-23
N '59. (MIRA 13:3)
(Diesel locomotives--Cooling)

ROGACHEV, Ye.Ya., kand.tekhn.nauk; MAKSIMOV, V.P., inzh.

Measures for improving the winter operating of the cooling system
of a TE3 diesel locomotive. Elek. i tepl. tiaga 4 no.11:9-11 N
'60. (MIREA 13:12)

(Diesel locomotives--Cooling)

ROGACHEV, Ye.Ya., kand.tekhn.nauk

Performance of TE3 diesel locomotive radiators under winter
conditions. Vest.TSNII MPS 18 no.6:19-22 S '59.
(MIRA 13:2)

(Diesel locomotives--Cold weather operation)

YERASH V., Ya., Shab.; LAGACHOV, Yo., Dash.

Square pulse generator. Radio no. 1A3(2-49,57) D 164.

(MIRA 18:3)

BOGOYAVLENSKIY, K.N.; GRIGOR'YEV, A.K.; BORISOV, V.G.; ROGACHEV, Yu.D.

Cross stretching of strip in the manufacture of large cold-bent
shapes. Trudy LPI no.238:64-67 '64. (MIRA 17:11)

ARSENIN, N.D.; BUDKOVSKIY, N.G.; BOLOTIN, A.A.; BONARTSEVA, N.N.;
BOGDANOVA, M.V.; GOLOVENKO, I.P.; IL'BITENKO, K.I.;
KIRPONOS, Ye.M.; KARAPETYAN, K.G.; KIRSANOVA, I.A.;
KUZNETSOV, A.L.; KORESHNIKOVA, N.F.; KORZHENEVSKAYA, T.I.;
NEMIROV, N.G.; NIKONOVA, T.K.; NAZAROV, V.N.; PISAREVA, I.A.;
POPOV, S.A.; PRONINA, N.A.; PAKHMAN, M.Ye.; REYPOLSKIY, S.N.;
ROGACHEV, Yu.N.; SOSNINA, V.D.; STARSHINOV, B.M.; KHUDYAKOV,
B.Ya.; SHELEKASOV, V.I.; PARKOV, V.P., podpolkovnik, red.;
MURAV'YEV, A.I., polkovnik, red.; CHAPAYEVA, R.I., tekhn. red.

[Relics of military glory] Relikvii boevoi slavy. Moskva,
Voenizdat, 1962. 166 p. (MIRA 15:8)

1. Nauchnyye sotrudniki TSentral'nogo muzeya Sovetskoy Armii
(for all except Murav'yev, Chapayeva).
(Military museums)

AUDIOLIBRARY, A. I.

Burgendorf, V.V., "Investigation of the Protection of Power Systems From Lighting"
A. I. Gorbunov, N.P. Yemelyanov, O.V. Livanova, A. I. Rogacheva, and Ye. S.
Fedorov were reported to be associates of the laboratory. (Elektrичество, No. 2,
1949) Central Scientific Research Electrical Engineering Laboratory (TsNII),
Ministry of Power Stations.

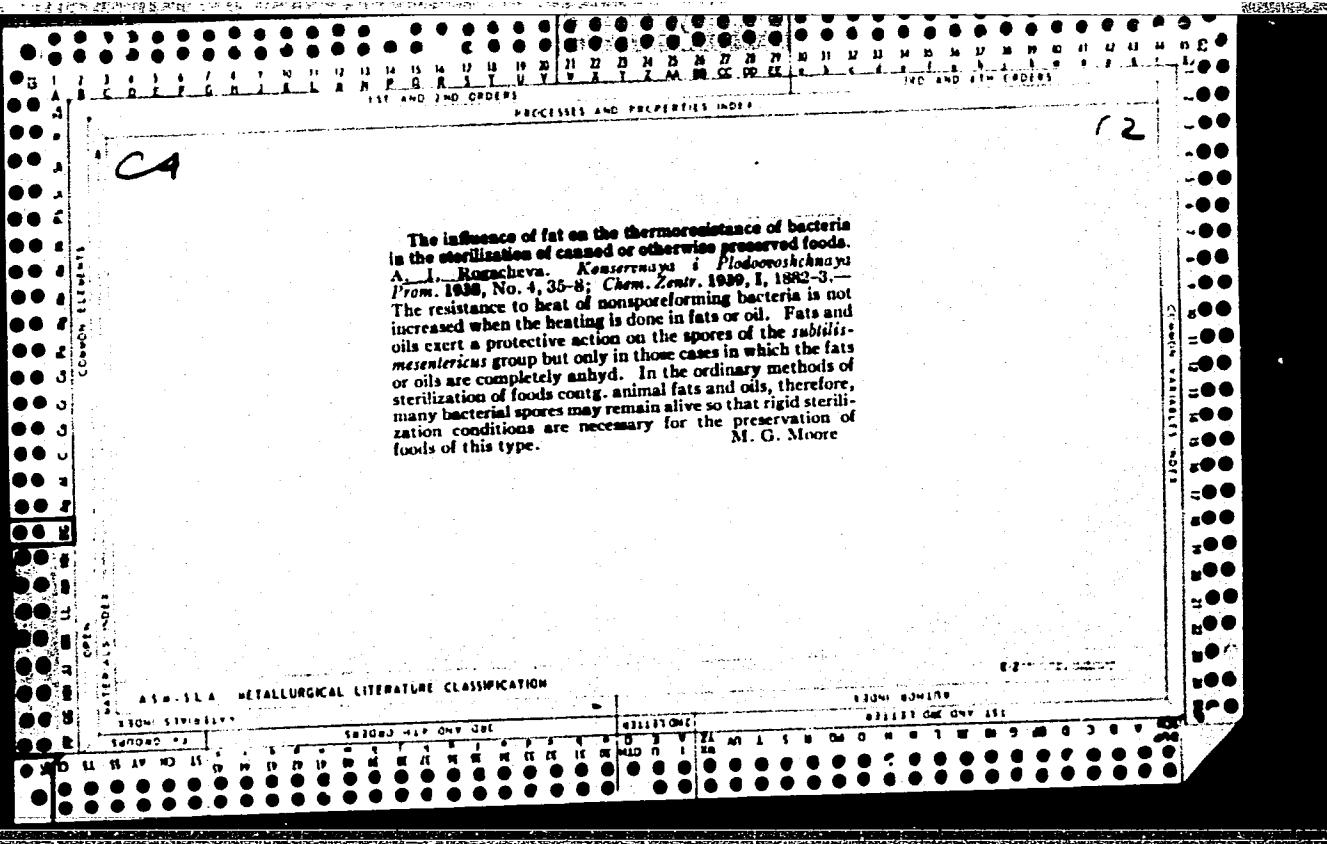
SC; W-27801, 14 Sept. 1953

ZHOLKEVICH, V.N.; ROGACHEVA, L.Ya.

Effect of 2,4-dinitrophenol on the oxygen consumption by wilting plants. Fiziol. rast. 11 no.4:662-666 Jl-Ag '64..

(MIRA 17:11)

1. Institut fiziologii rasteniy imeni Timiryazeva AM SSSR, Moskva.



ROGACHEVA, A. I.

TA 16T20

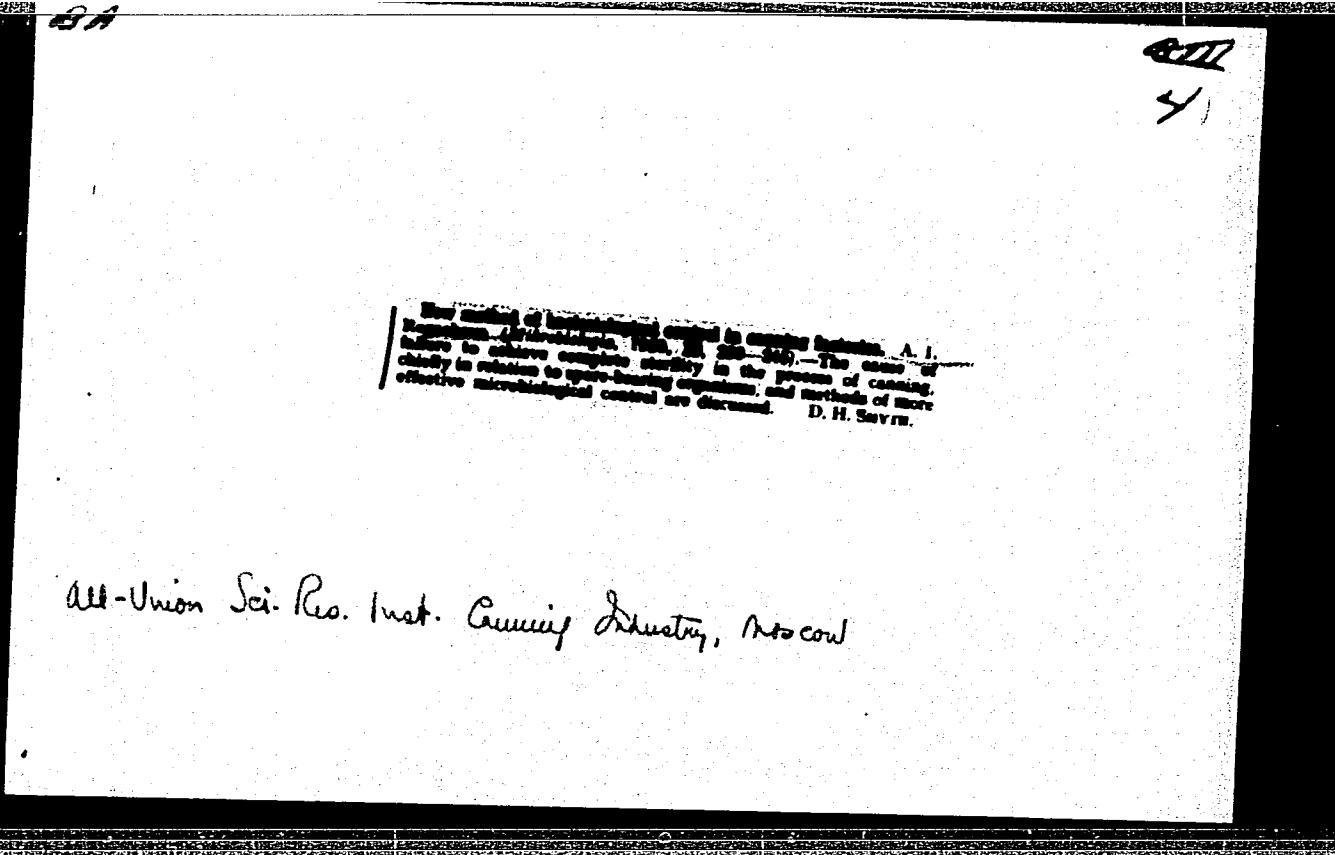
USSR/Medicine - Bacteria - Spores Mar 1947
Medicine - Geography

"Thermostability of Bacterial Spores of Climatic Zones," A. I. Rogacheva, All Union Scientific Research Institute of the Canning Industry, 4 pp

"Mikrobiologiya" Vol XVI, No 3

Study giving the various periods of exposure to various temperatures necessary to kill spores of cultures from different geographical locations.

16T20



ROGALOWIA, A. I.

"Concerning the concern in the work of the Microbiological Laboratory of the Scientific Research Institute of Canning Industry with the Canned Food Production."

SOURCE: MIKROBIOLOGIA, Vol. 21, No. 3, May/June 1952.

ROGACHEVA, A.I., kandidat tekhnicheskikh nauk.

[Microbiological control in the canning industry] Mikrobiologicheskii kontrol' konservnogo proizvodstva. Moskva, Pishepromizdat, 1953. 93 p.

(MIRA 6:8)

(Food--Bacteriology) (Canning and preserving)

ROGACHEVA, A.I., kandidat tekhnicheskikh nauk.

Thermostatic aging of canned foods. Ref.nauch.rab.VNIIKP no.2:
13-16 '54. (MLRA 9:4)

(Canning and preserving)

ROGACHEVA, A.I., kandidat tekhnicheskikh nauk; MATROZOVA, R.G., kandidat tekhnicheskikh nauk; MEKHOTENOVА, T.I., kandidat tekhnicheskikh nauk; SYCHEVA, M.Ye., starshiy nauchnyy sotrudnik.

Schedule for the sterilization of canned foods. Trudy VNIKIP no.3:
32-47 '54.
(Canning and preserving) (Sterilization)
(MLRA 9:8)

ROGACHEVA, A. I.

USSR/Biology - Bacteriology

Card 1/1

Author : Rogacheva, A. I., scientific collaborator of the All-Union Scientific-Research Institute of the Canning Industry

Title : With the bacteriologists of the All Union Scientific-Research Institute of the Canning Industry

Periodical : Nauka & Zhizn' 21/4, 34, April 1954

Abstract : Soviet bacteriologists find that inasmuch as the spoiling of canned fruit and vegetables is caused by bacteria, new ways of destroying them should be developed. At present the most common method used is heating. This article is a study of the use of phytoncides, which are natural destroyers of bacteria and are found in plants. In sterilizing with heat, according to the scientists, it should be done in such a way as to keep these phytoncides alive.

Institution :

Submitted :

ROGACHEVA, A.I.

Phytoncidal properties of the plant raw material in the canning
industry. Priroda 44 no.12:95-98 D '55. (MLRA 9:1)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut konservnoy
promyshlennosti.
(Phytoncides)

ROGACHEVA, Aleksandra Ivanovna; TOKIN, B.P., professor, ratsenzent;
MASLOVA, Ye.F., redaktor; YAROV, E.M., tekhnicheskiy redaktor

[Phytoncides and their use in the canning industry] Fitontsydy
i ikh ispol'zovanie v konservnoi promyshlennosti. Moskva,
Pishchepromizdat, 1956. 88 p. (MLRA 10:2)
(Canning and preserving) (Phytoncides)

~~ROGACHEVA, ANNA V.~~ kandidat tekhnicheskikh nauk; KOSTROVA, E.I., mladshiy nauchnyy sotrudnik.

Microbiology of tomato products. Trudy VNIIKOP no.6:96-110 '56.
(MLRA 10:5)
(Tomatoes) (Food—Bacteriology)

ROGACHEVA A.I.

USSR/Microbiology - Sanitation Microbiology

F-4

Abs Jour : Ref Zhur - Biol., No 3, 1958, 9890

Author : Rogacheva, A.I., Kostrova, E.I.

Inst :

Title : Microbiology of Tomato Products.

Orig Pub : Tr. Vses. n.-i. konserv. i ovoshchesushil'n. prom-sti,
1956, No 6, 96-110

Abstract : Cannings containing tomato sauce are sterilized for a shorter period of time than other cannings. It was considered that this is due to the bactericidal action of acids contained in tomatoes. Investigations showed that it was also due to the presence in tomatoes of phytocides, active in regard to *Bacillus mesentericus*, *Saccharomyces cerevisiae*, and mold of the *Penicillium* type. Bactericidal properties of different kinds of tomato juices vary in degree.

Card 1/1

ROGACHEVA, A.I.

Production of canned sauerkraut. Kons. i ov. prom. 12 no. 3:44 Mr '57.
(MIRA 10:5)

1. Seesoyusnyy nauchno-issledovatel'skiy institut konservnoy i
ovoshchesushil'noy promyshlennosti.
(Sauerkraut)

ROGACHEVA, A.I.

Cleanliness as an important factor in quality improvement of canned feeds. Kons. i ov. prem. 12 no. 4:39-40 Ap '57. (MIRA 10:6)
(Canning and preserving)

BOGACHEVA, A.I.

Microbiological control in fish canneries. Kons.i ov.prom. 12
no.5:40-41 My '57. (MLRA 10:8)
(Fishery products--Bacteriology)

ROGACHEVA, A.I.

Microbiological control in the canning industry. Kons. i ov.
prom. 12 no.7:23-25 J1 '57. (MIRA 12:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut konservnoy i
ovoshchesushil'noy promyshlennosti.
(Food, Canned)

APT, F.S.; KOSTROVA, Ye.I.; MATROZOVA, R.G.; NEKHOTENOV, T.I.; ROGACHEVA,
A.I.; NOSKOVA, G.L., kand. biol. nauk, retsenzent; SYCHEVA, M.Ye.,
mikrobiolog, retsenzent; NAMESTNIKOV, A.F., kand. tekhn. nauk,
spets. red.; MURASHEVA, O.I., red.; SOKOLOVA, I.A., tekhn. red.

[Microbiological control in the canned food, concentrated food and
dried vegetables industry] Mikrobiologicheskii kontrol' konservnogo,
pishchekontsentratnogo i ovoshchesushil'nogo proizvodstva. Moskva,
Pishchepromizdat, 1961. 114 p. (MIRA 14:11)
(FOOD-MICROBIOLOGY)

ZHOLKEVICH, V.N.; CHETVERIKOV, A.G.; ROGACHEVA, A.Ya.

Probable participation of free radicals in the biological processes
of energy transfer. Fiziol. rast. 12 no.2:193-203 Mr-Ap '65.
(MIRA 18:6)

1. Institut fiziologii rasteniy imeni Timiryazeva AN SSSR i
Institut khimicheskoy fiziki AN SSSR, Moskva.

ZHOLKEVICH, V. N.; CHELVENTSEVA, S. F.; BOGDANOVICH, A. V.

Respiration efficiency and concentration of free radicals. No. 21.
AN SSSR 165 no. 1a234-336 N 166. (MERA 18:16)

U. Institut fizicheskii rasseyaniya im. K. L. Tsimlyazeva AN SSSR i
Institut khimicheskoy fiziki AN SSSR. Submitted December 31,
1961.

SIMONOVICH, N.M. (g.Gor'kiy); ROGACHEVA, E.D. (g.Gor'kiy)

Detection of ionizing radiations. Fiz. v shkole 16 no.2:75-76
Mr-Ap '56. (MLRA 9:6)

1. Meditsinskiy institut.
(RADIOACTIVITY)

ZHOLKEVICH, V.N.; KHOLLER, V.A.; ROGACHEVA, A.Ya.

Correlation between respiration and heat loss in growing leaves. Dokl.
AN SSSR 158 no. 5:1213-1216 O '64. (MIRA 17:10)

1. Institut fiziologii rasteniy im. K.A.Timiryazeva AN SSSR i Moskovskiy
gosudarstvennyy universitet im. M.V.Lomonosova. Predstavлено akademikom
A.L.Kursanovym.

ZHOLKEVICH, V.N.; ROGACHEVA, A.Ya.

Effect of water deficiency on changes in the acid-soluble organo-phosphorus compounds in plant tissues. Dokl. AN SSSR 151 no.2: 456-459 Jl '63. (MIRA 16:7)

1. Institut fiziologii rasteniy im. K.A.Timiryazeva AN SSSR.

Predstavлено академиком А.Л.Курсановым.

(Phosphorus organic compounds)
(Plants, Effect of aridity on)

BELYUSTIN, A.V.; ROGACHEVA, E.D.

Formation of crystallization centers in the presence of the
seed crystal. Rost krist. 4:5-9 '64. (MIRA 17:8)

X-Ray investigation of the structure of alloys in the system
 $\text{CuGaSe}_2\text{-Ga}_2\text{Se}_3$. L. S. Palatnik, Yu. F. Komnik, Ye. K. Belova.

Electrical and optical properties of alloys in the system $\text{CuGaSe}_2\text{-Ga}_2\text{Se}_3$.
V. M. Koskin, L. G. Manyukova, Yu. F. Komnik, L. S. Palatnik.

λ -Ray investigation of the system $\text{CuInSe}_2\text{-In}_2\text{Se}_3$. L. S. Palatnik,
Yu. F. Komnik, E. I. Rogacheva, L. V. Atroshchenko.

Electrical properties of alloys in the system $\text{CuInSe}_2\text{-In}_2\text{Se}_3$.
L. S. Palatnik, V. M. Koskin, Yu. F. Komnik, L. N. Gal'chinetskiy,
L. G. Manyukova.

Report presented at the 3rd National Conference on Semiconductor Compounds,
Kishinev, 16-21 Sept 1963

SYROTECHKOVSKIY, Ye.I : ROGACHEVA, E.V.

Recent data on the distribution of some birds in the taiga of
the Yenisey Valley. Probl.Sev. no.2:203-211 '58.

(MIRA 12:4)

1. Institut geografii v SSSR.
(Yenisey Valley--Birds)

SYROYECHKOVSKIY, Ye.Ye.; ROGACHEVA, E.V.

Recent data on the distribution of birds in the taiga of the
Yenisey Valley. Report No.2. Probl.Sev. no.3:91-97 '59.
(MIRA 13:4)

1. Institut geografii AN SSSR.
(Yenisey Valley--Birds)

SYROYECHKOVSKIY, Ye.Ye.; ROGACHEVA, E.V.

Birds and mammals of the Yenisey forest tundra and the effect of
economic activities of man on them. Procl. Sev. no.4:95-107
'61. (MIRA 15:1)
(Yenisey Valley--Zoology)

ROGACHEVA, E.V.

Conference on the problems of the organization and methods for
taking the census of animal resources. Izv. AN SSSR. Ser. geog.
no.6:162-163 N-D '61. (MIRA 14:12)

(Animal population)

SYROYECHKOVSKIY, Ye.Ye., kand.geograf.nauk; ROGACHEVA, E.V. (Moskva)

Sables and wild ungulates of the Yenisey area of Siberia.
Priroda 50 no. 3:102-104 Mr '61. (MIRA 14:2)
(Yenisey Valley--Zoology)

ROGACHEVA, E.V.

Abundance and distribution of birds in the lower Yeloguy
Valley (Yenisey Valley taiga). Ornithologija no.5:118-134 '62.
(MIRA 16:2)

(Yeloguy Valley—Birds)

CHOUNSI, D.Garris [Chauncey, D.Harris]; FRENCH, R.A.; ROGACHEVA, E.V.
[translator]; STANOVA, T.A. [translator]

Foreign scientists' statements on Soviet geography. Isv. AN SSSR.
Ser. geog. no.4:106-109 Jl-Ag '62. (MIRA 16:5)
(Geography)

GEFTER, Ye. L.; ROGACHEVA, I. A.

Interaction of aryl dichlorophosphines with cyclic oxides.
Part 5: Reaction of chlorophenyl dichlorophosphine with
ethylene oxide. Zhur. ob. khim. 32 no.12:3962-3965 D '62.
(MIRA 16:1)

1. Nauchno-issledovatel'skiy institut plasticheskikh mass.

(Phosphine) (Ethylene oxide)

L 12667-63

EWP(j)/EPF(c)/EWT(m)/BDS--Pr-4/Pc-4--RM/WW
S/079/63/033/004/004/010 63
62

AUTHOR: Gefter, Ye.L., Rogacheva, I.A.

TITLE: Interaction of aryl dichlorophosphines with
cyclic oxides. VI. The Arbuzov regrouping of
di- β , β' -chloroethyl esters of phenyl- and
chlorophenylphosphinic acids

PERIODICAL: Zhurnal obshchey khimii, v. 33, no. 4, 1963,
1177-1180

TEXT: The Arbuzov regrouping of tri- β , β' , β'' -
chloroethylphosphite can be complicated by the competing process
of its thermal isomerization. In order to minimize this possi-
bility the authors employed sufficiently active halogen-bearing
compounds as the agents for the Arbuzov regrouping. These were
methyl iodide, ethyl and allyl bromide, and acetyl chloride.
All the reactions proceeded easily; the mixing of di- β , β' -
chloroethyl esters of phenyl- and (to a lesser degree)

Card 1/2

L 10667-63

S/079/63/033/004/004/010

Interaction of aryldichlorophosphines with...

chlorophenylphosphinic acids with methyl iodide and acetyl chloride was even accompanied by the release of heat. The products obtained were the β -chloroethyl esters of the corresponding arylalkyl-(alkenyl-, acyl-) phosphinic acids. There is 1 table which contains constants and other data for the esters.

ASSOCIATION: Nauchno-issledovatel'skiy institut plasticheskikh mass (Scientific Research Institute of Plastics)

SUBMITTED: February 28, 1962

kes
Card 2/2

GEFTER, Ye.L.; ROGACHEVA, I.A.

Interaction of aryl dichlorophosphines with cyclic oxides. Part 8;
Interaction of tolyl dichlorophosphine with ethylene oxide. Zhur. ob.
khim. 34 no.1:88-91 Ja '64.

Interaction of aryl dichlorophosphines with cyclic oxides. Part 9:
Interaction of aryl dichlorophosphine with chloroethyl ester of phenylphosphinic acid.
Lida. 92-94 (MIRA 17:3)

1. Nauchno-issledovatel'skiy institut plasticheskikh mass.

L 00891-66 EWT(m)/EPF(c)/EWP(j) RM

ACCESSION NR: AP5020085

UR/0079/65/035/008/1463/1467

547.26'118 : 547.361 19

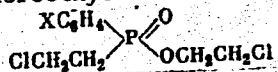
AUTHOR: Gefter, Ye. L.; Rogacheva, I. A.

TITLE: Interaction of aryl dichlorophosphines with cyclic oxides. X. Contribution
to the problem of thermal isomerization of di- β -chloroethyl esters of arylphospho-
nous acids 1, 55 55

SOURCE: Zhurnal obshchey khimii., v. 35, no. 8, 1965, 1463-1467

TOPIC TAGS: chlorinated aromatic compound, isomerization, cyclic group, aromatic
hydrocarbon

ABSTRACT: Several β -chloroethyl esters of aryl- β -chloroethylphosphonic acids of a
general formula



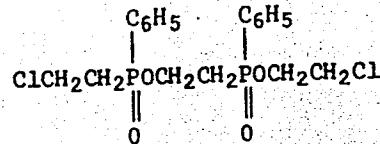
(where X is H, Cl, CH_3O , and CH_3) were prepared in order to study the mechanism of
thermal isomerization of di- β -chloroethyl esters of arylphosphonous acids. For each
synthesized compound were determined: specific gravity, refractive index, and chemi-
cal formula (on the basis of elemental analysis). It was found that the secondary

Card 1/3

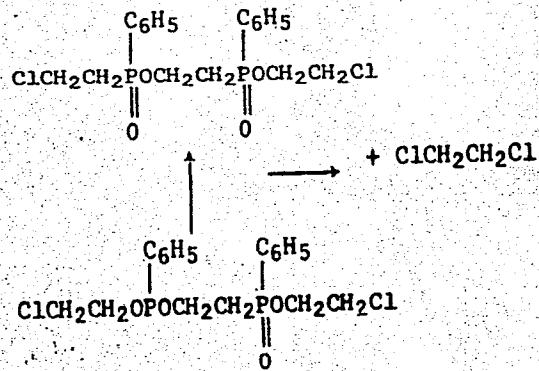
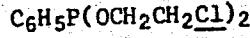
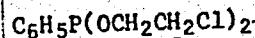
L 00891-66

ACCESSION NR: AP5020085

products of isomerization have structure



ester according to the sequence



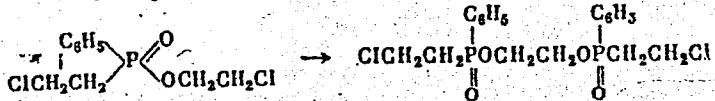
Card 2/3

L 00891-66

ACCESSION NR: AP5020085

2

Apparently, at first, an unstable cyclic intermediate is formed. Then, most of this intermediate transforms into β -chloroethyl ester of phenyl- β -chloroethylphosphonic acid and a smaller portion of it reacts with another molecule of the starting ester to form



Orig. art. has: 2 tables and 1 formula.

ASSOCIATION: Nauchno-issledovatel'skiy institut plasticheskikh mass (Scientific Research Institute for Plastics) /
55

SUBMITTED: 30Apr64

ENCL: 00

SUB CODE: GC, OC

NO REF Sov: 008

OTHER: 000

Card 3/3 DP

ACC NR: AP6031394

SOURCE CODE: UR/0079/66/036/009/1712/1713

AUTHOR: Gefter, Ye. L.; Rogacheva, I. A.

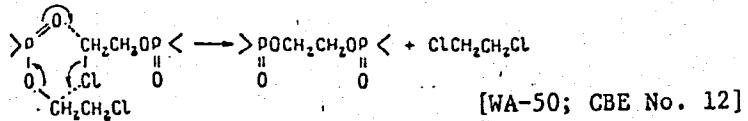
ORG: none

TITLE: Mechanism of thermal self condensation of mono- β -chloroethyl phosphonate

SOURCE: Zhurnal obshchey khimii, v. 36, no. 9, 1966, 1712-1713

TOPIC TAGS: chloroethyl phosphonate, thermal self condensation, condensation reaction, ester, phosphonic acid

ABSTRACT: Analysis of recent experimental data on the thermal condensation of β -chloroethyl esters of arylphosphonous acids leads to the conclusion that the thermal condensation of β -chloroethyl phosphonate proceeds not by the previously proposed ionic mechanism (E. L. Gefter, I. A. Rogacheva, ZhOKh, 36, 79, 1966) but by the following mechanism:



SUB CODE: 07 / SUBM DATE: 20Dec65 / ORIG REF: 003/

Card 1/1

UDC: 547.26'118

L 34022-66 EWT(m)/EWP(j) IJP(c) RM
ACC NR: AP6025533

SOURCE CODE: UR/0079/66/036/001/0079/0081

56
Q3

AUTHOR: Geftor, Yo. L.; Rogacheva, I. A.

ORG: Scientific Research Institute of Plastics (Nauchno-issledovatel'skiy institut
plasticeskikh mass)

TITLE: Reaction of aryldichlorophosphines with cyclic oxides. XI. Syntheses of
esters of phosphorus acids and ethylene glycol by thermal selfcondensation¹

SOURCE: Zhurnal obshchey khimii, v. 36, no. 1, 1966, 79-81

TOPIC TAGS: ester, phosphorus compound, ethylene glycol, condensation reaction,
chemical synthesis, UV irradiation, chemical bonding

ABSTRACT: A simple method was developed for synthesizing esters of phosphorus acids and ethylene glycol by thermal self-condensation of mono-beta-chloroethyl esters of the corresponding acids at 200-240°. The structures of some of these compounds were confirmed by converting them to the corresponding acid chlorides (with PCl₅), as well as by countersyntheses. The invariance of the rate of the self-condensation reaction in the presence of initiators and inhibitors of radical processes, as well as under the influence of ultraviolet irradiation, makes a free radical mechanism of this process improbable. The authors consider a heterolytic course of the thermal self-condensation (in the polar media of the esters themselves).

Cord 1/2

09/09 09:20

L 34022-66

ACC NR: AP6025533

accomplished as a sequential or simultaneous cleavage of the C-O and C-Cl bonds, to be the most probable mechanism. Five previously unknown esters of phosphorus acids and ethylene glycol were synthesized and characterized.
Orig. art. has: 1 table. [JPRS: 35,998]

SUB CODE: 07, 17 / SUBM DATE: 22Feb65 / ORIG REF: 007 / OTH REF: 002

Card 2/2 *pls*

GIFTLR, Ye.L.; ROGACHEVA, I.A.

Interaction of aryl dichlorophosphines with cyclic ~~oxygen~~. Part 6
Arbuzov rearrangement of di-(β , β -chlorethyl esters of phenyl- and
chlorophenylphosphinic acids. Zaur.ob.khim. 33 no.4:1177-1180 Ap '63.
(MIRA 16:5)

1. Nauchno-issledovatel'skiy institut plasticheskikh mass.
(Phosphinic acid) (Esters) (Rearrangements (Chemistry))

S/079/62/032/012/003/008
D424/D307

AUTHORS: Gefter, Ye.L. and Rogacheva, I.A.

TITLE: Reaction of arylphosphonous dichlorides with cyclic oxides. V. Reaction of chlorophenylphosphonous dichloride with ethylene oxide

PERIODICAL: Zhurnal obshchey khimii, v. 32, no. 12, 1962,
3962-3965

TEXT: The reaction with a chlorophenylphosphonous dichloride consisting mainly of the p-isomer with a small amount of m-isomer proceeds readily to give di- β -chloroethyl chlorophenylphosphinate (II). This ester could not be distilled even at 1-2 mm Hg without isomerization with evolution of heat to give α -chloroethyl chlorophenyl- β -chloroethylphosphinate (III). (III) was obtained in pure form from the crude isomerization product by converting it with PCl_5 into the corresponding acid chloride, purifying this by distillation, and treating it with ethylene oxide. Even pure (III) decomposed on heating with the evolution of dichloroethane (this re-

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Reaction of arylphosphonous ...

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action will be examined in a subsequent communication). Treatment of the chlorophenyl- β -chloroethylphosphinic chloride obtained from (III) with triethylamine gave chlorophenylvinylphosphinic chloride. The addition of sulfur to (II) gave di- β -chloroethyl chlorophenyl-phosphonothioate. All the exothermic reactions described liberate less heat than the corresponding reactions of the unsubstituted phenyl compounds described previously.

ASSOCIATION: Nauchno-issledovatel'skiy institut plasticheskikh mass (Scientific Research Institute of Plastics)

SUBMITTED: December 27, 1961

Card 2/2

GEFTER, Ye.L.; ROGACHEVA, I.A.

Interaction of aryl dichlorophosphines with cyclic oxides. Part 4:
Derivatives of phenylphosphinic acid. Zhur. ob. khim. 32 no.3:
964-967 Mr '62. (MIRA 15:3)

1. Nauchno-issledovatel'skiy institut plasticheskikh mass.
(Phosphinic acid)

GEFTER, Ye. L; ROGACHEVA, I.A.

Reactions of aryl dichlorophosphines with cyclic oxides. F
Derivatives of phenylvinylphosphinic acid. Zhur. ob. khim.
no.3:955-958 Mr '61. (MI)

1. Nauchno-issledovatel'skiy institut plasticheskikh ma-
(Phosphinic acid)

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B118/B207

15.8.14

AUTHORS: Gefter, Ye. L. and Rogacheva, I. A.

TITLE: Reaction of aryl dichloro phosphines with cyclic oxides.
III. Derivatives of phenyl-vinyl phosphinic acid

PERIODICAL: Zhurnal obshchey khimii, v. 31, no. 3, 1961, 955-958

TEXT: Taking account of the papers by M. I. Kabachnik on the synthesis and applicability of vinyl phosphinates (Ref. 2: Izv. AN SSSR, OKhN, 1947, 233), as well as by G. Kamay and V. S. Tsvetunin on the synthesis of ethyl-vinyl phosphinates (Ref. 3: DAN SSSR, 128, 543, (1959)), the authors synthesized some hitherto unknown phenyl-vinyl phosphinates, proceeding from the previously described (Refs. 4, 5: ZhOKh 31, 949 (1961); ZhOKh 31, 952 (1961)) phenyl- β -chloro ethyl phosphinates (I) and the phenyl-vinyl phosphinic acid chloride. When treated with alcoholic alkali lye or triethyl amine in equimolecular ratio, the esters (I) split off HCl and were converted into the respective phenyl-vinyl phosphinates (II), the constants of which are given in a table. β -chloro ethyl ester no. 3 could only be obtained from triethyl amine. In the reaction of PCl_5 with phenyl-vinyl phosphinates, the

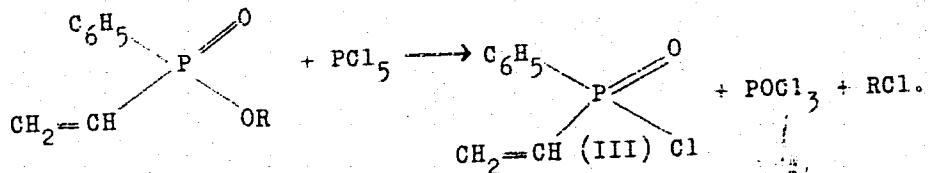
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B110/B207

Reaction of aryl

ester bond was easily split under the formation of phenyl-vinyl phosphinic acid chloride (III):

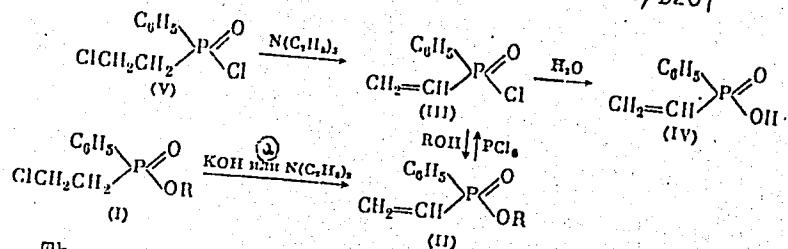


Compound (III) was also obtained by reaction of phenyl- β -chloro ethyl phosphinic acid chloride (V) with triethyl amine. Chlorine is more mobile in compound (III) than in the acid chloride (V), and hydrolyzes rather quickly in the air. The hydrolysis of compound (III) yields phenyl-vinyl phosphinic acid (IV) and, when it is treated with alcohol, the ester of this acid is obtained. Thus, it was shown that the esters (II) may be obtained in two ways: from the esters of phenyl- β -chloro ethyl phosphinic acid and from the phenyl-vinyl phosphinic acid chloride. The reactions are illustrated by the following scheme:

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Reaction of aryl . . .



(a) = or). There are 1 table and 7 Soviet-bloc references.

ASSOCIATION: Nauchno-issledovatel'skiy institut plasticheskikh mass, Moskva
(Moscow Scientific Research Institute of Plastics).

SUBMITTED: April 26, 1960

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Reaction of aryl ...

№ № п. п. (1)	Эфиры (b)	Температура кипения (задание 1 мм)	n_D^{20}	d_4^{20}	Выход (в %)	% P	
						най- дено (e)	вычи- сано (f)
1	Метиловый	93—95°	1.5336	1.1890	56	16.8	17.01
2	Этиловый	116—118	1.5249	1.1150	82	15.6	15.79
3	3-Хлорэтиловый	123—125	1.5395	1.2392	61	13.2	13.43
4	Пропильтовий	118—120	1.5170	1.1120	88	14.6	14.74
5	n-Бутиловый	120—122	1.5119	1.0899	73	13.65	13.81
6	Алилловий	118—120	1.5278	1.1295	70.5	14.69	14.88
7	Фенилловий	130—133	1.5391	1.1025	69	12.59	12.68

Legend to Table: a) no; b) ester; c) boiling point (1 mm pressure); d)
yield; e) found; f) calculated; 1) methyl-; 2) ethyl-; 3) β -chloro ethyl-;
4) propyl-; 5) n-butyl-; 6) allyl-; 7) phenyl-.

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ROGACHEVA, I. M.

EYSAKOV, M.V., GOLDSHTEYN, D.L., OUSENKOVA, YE.A., ALFINOVA, E.A.,
BOROVAYA, M.S., PUCHKOV, N.O., KAZANSKIY, V.L., BADYSHTOVA, K.M.,
ROGACHEVA, I.M., CHESNOKOV, A.A., DENISENNY, K.K., ALTSHULER, A.O.,
GRASIMENKO, N.M., YASTREHOVA, O.I., ZHADANOVSKIY, N.B.

14

Production of High-grade petroleum oils and waxes by hydrogenation.

Report to be submitted for the Sixth World Petroleum Congress,
Frankfurt, 16-26 June 63

REEL #466

RODENDORF, B.B.
to

Rogacheva, I. M.

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